Table I. Training Grant Support Available to Participating Faculty and Departments<sup>1</sup>

List all other training grant support currently held by faculty members and departments participating in this training grant application. If none of the participating faculty or department(s) have other training support, this should be indicated.

**Rationale:** This information provides insight into the training environment in each preceptor's laboratory, as well as the demands on his or her time to interact with trainees.

#### Sample Table I

| Faculty<br>Member or<br>Department | Funding Source,<br>Grant or Contract,<br>No. and Title | Program<br>Director | Project<br>Period | No. of<br>Positions<br>Pre/Post | Awarded<br>Direct<br>Costs/Yr |
|------------------------------------|--|---------------------|-------------------|---------------------------------|-------------------------------|
| Davies, J.                         | NIH T32DK12345<br>Training in Molec<br>Biology         | Holland, R.         | 98-02             | 0/6                             | \$205,000                     |
| George, B.                         | NIH T32Al32109<br>Training in Transplan<br>Immunology  | Series, H.<br>t     | 99-03             | 4/5                             | \$342,000                     |
| Department of Medicine             | NIH T32HL43213<br>Training in Lung<br>Health and Med.  | Brand, J.           | 99-03             | 2/6                             | \$263,000                     |

<sup>&</sup>lt;sup>1</sup> PHS 398 (Rev. 5/01), page 66, section 8, Background, paragraph 3, "In a table, list all current and pending training grant support available...."

Table II. Participating Faculty Members<sup>1</sup>

Although this table is not requested in the PHS 398, its inclusion will assist the reviewers in evaluating the application.

# Sample Table II

| Name/<br>Degree      | Rank        | Primary<br>(& Secondary)<br>Appointment(s) | Research Interest                           | Role and<br>% Effort        |
|----------------------|-------------|--|---|-----------------------------|
| Holmes, J.,<br>Ph.D. | Prof.       | Molecular Biology                          | Regulation of Vascular<br>K-ATPase          | Program<br>Director,<br>10% |
| Terry, W.,<br>Ph.D.  | Prof. & Chr | Biochemistry & Molecular Biophysics        | Allograft Rejection                         | Mentor,<br>3%               |
| Smythe, A.,<br>M.D.  | Asst. Prof  | Pharmacology<br>(Biochemistry)             | Cellular Mutagenesis                        | Mentor,<br>5%               |
| Fisher, J.,<br>Ph.D. | Assoc. Prof | Physiology;<br>(Pharmacology)              | Imaging of Regional<br>Myocardial Perfusion | Mentor,<br>5%               |

<sup>&</sup>lt;sup>1</sup>PHS 398 (Rev. 5/01), page 67, section 8, Program Faculty, paragraph 1, "List each training faculty member...."

# Table III Current and Pending Research Grant and Contract Support of the Training Faculty<sup>1</sup>

(Alphabetically by Faculty Member)

This table should replace Item C. Research Support of the "Biographical Sketch Format Page" of the PHS 398 (Rev. 5/01) kit for each faculty member. Include all support (Federal and non-Federal); do not include other training grants (these are in Table I).

**Rationale:** One component of the overall strength and suitability of the training environment is the pool of active and pending research grant and contract support held by the preceptors.

#### Sample Table III

| Faculty<br>Member | Funding Source, Grant or Contract No., and Title  | Awarded Direct<br>Costs per Remaining<br>Years <sup>1</sup>                | Project Period         |  |  |
|-------------------|---|--|------------------------|--|--|
| Gavett, M.        | NIH 5 R01 HL32456<br>Platelet Factors in CV-04<br>Blood Flow  | -03 \$ 52,378<br>-04 54,473<br>-05 56,652                                  | 01/97-12/01            |  |  |
| Holmes, J.        | American Heart Association<br>Established Investigator<br>Molecular Cloning of Heart K+<br>Channels             | -03 \$ 35,000<br>-04 35,000<br>-05 35,000                                  | 07/99-06/03            |  |  |
|                   | NIH 2 R01HL46789<br>Regulation of Vascular<br>K-ATPase  | -06 \$ 198,250<br>-07 203,200<br>-08 209,320<br>-09 214,933<br>-10 221,130 | 03/00-02/04            |  |  |
| Smythe, A.        | NSF PCM 81-27741<br>Cellular Mutagenesis  | -01 \$ 30,500<br>-02 32,750  | 07/99-06/00            |  |  |
| Terry, W.         | NIH 1 R01 AI12345<br>Immunological Reactivity<br>and Allograft Response   | -01 \$ 97,150<br>-02 101,036<br>-03 105,077<br>-04 84,980<br>-05 88,380    | 07/00-06/05<br>Pending |  |  |
|                   | Novartis Corporation<br>Regulation of Enothelial<br>Growth and Immunological<br>Suppression of Myocardial Antig | -04 \$ 80,000<br>-05 80,000  | 06/99-05/01            |  |  |

<sup>&</sup>lt;sup>1</sup> Awarded figures for funded grants or contracts, or requested costs for pending applications.

<sup>&</sup>lt;sup>1</sup> PHS 398 (Rev. 5/01), page 67, section 8, Program Faculty, paragraph 1, "In a table, indicate active and pending research support for each participating faculty member...."

Table IV. Training Record of Participating Faculty for the Previous Ten Years <sup>1</sup> (Alphabetically by Faculty Member)

For each faculty member identified in this application, list all past and current students for whom he or she has served as thesis advisor or sponsor.

If a faculty member has not had predoctoral or postdoctoral students, indicate this.

**Rationale:** The training experience success of a preceptor can be gauged by the number of previous trainees he or she has sponsored and their subsequent career paths.

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| Faculty<br>Member | Trainee<br>(Predoc/<br>Postdoc) | Training<br>Period | Institution<br>Date & Type<br>of Degree<br>Awarded <sup>1</sup> | Title of<br>Research<br>Project          | Current<br>Position<br>or Source<br>of<br>Support <sup>2</sup> |  |  |
|-------------------|---------------------------------|--------------------|---|--|--|--|--|
| Holmes, J.        |                                 |                    |   |  |  |  |  |
| Past Traine       | es<br>Safer, P.<br>(Predoc)     | 92-96              | UCSD, 1990<br>B.S.  | PKC Cardiac<br>Protection                | Postdoc<br>Univ. Texas   |  |  |
|                   | Spotter, R. (Postdoc)           | 97-99              | Harvard,<br>1996, Ph.D.   | Ca antagonists and preconditioning       | Asst. Prof.<br>Yale Univ.                                      |  |  |
| Current Trainees  |                                 |                    |   |  |  |  |  |
|                   | Browne, A.<br>(Predoc)          | 97-                | U. Tenn<br>1997, B.A.   | Selective inhibition<br>K-ATP-ase        | T32HL3244  |  |  |
|                   | Witmer, G.<br>(Postdoc)         | 99-                | JHU, 1998<br>Ph.D.  | Oxygen radicals in myocardial protection | F32HL4666  |  |  |
| Stuart, G.        |                                 |                    |   |  |  |  |  |
| Past Traine       | es_                             |                    |   |  |  |  |  |
|                   | Raney, H.<br>(Postdoc)          | 95-98              | UCSF, 1992<br>M.D.  | Collateral vessel<br>Development and MI  | Assoc.<br>Prof.<br>Baylor Coll.<br>Med.                        |  |  |
|                   | Fillups, L.<br>(Postdoc)        | 96-99              | Boston U.<br>1992,  | Growth factors in coronary vessel        | Asst. Prof.<br>Univ. Penn.                                     |  |  |

<sup>&</sup>lt;sup>1</sup>PHS 398 (Rev. 5/01), page 67, section 8, Program Faculty, paragraph 3, "In a table for each faculty member....list all past and current students..."

# **Current Trainees**

none

<sup>&</sup>lt;sup>1</sup> Prior to entering training

<sup>&</sup>lt;sup>2</sup> For former trainees, list current position; for current trainees, list source of support

Table V. Applicant Pool for Selection of Trainees for the Previous Five Years<sup>1</sup>

For each participating Department, give the number of individuals who have: formally applied for training; been offered admission; entered training; completed or are in training; and left the program. If predoctoral or postdoctoral positions are not requested for this program, these data should not be included.

**Rationale:** These data (as well as the data in Tables VI & VII) can be used to evaluate the size and quality of the applicant pool from which trainees may be selected.

# Sample Table V

| Depar | Department of Medicine |   |  |                                       |                               |                                     |  |  |  |  |  |
|-------|------------------------|---|--|---------------------------------------|-------------------------------|-------------------------------------|--|--|--|--|--|
| Year  | Type                   | No. Applications<br>Received <sup>1</sup> | No. of Positions<br>Offered <sup>1</sup> | No. Entering<br>Training <sup>1</sup> | No. Completed/<br>in Training | No. Leaving<br>Program <sup>2</sup> |  |  |  |  |  |
| 1991  | Pre                    | 25  | 20                                       | 16                                    | 13                            | 3                                   |  |  |  |  |  |
|       | Post                   | 10 (2)                                    | 6 (2)                                    | 4 (0)                                 | 4                             | 0                                   |  |  |  |  |  |
| 1992  | Pre                    | 36  | 20                                       | 13                                    | 12                            | 1                                   |  |  |  |  |  |
|       | Post                   | 14 (6)                                    | 8 (4)                                    | 7 (3)                                 | 7                             | 0                                   |  |  |  |  |  |
| 1993  | Pre                    | 38  | 24                                       | 23                                    | 21                            | <b>2</b> <sup>3</sup>               |  |  |  |  |  |
|       | Post                   | 18 (9)                                    | 10 (6)                                   | 9 (5)                                 | 8                             | 1                                   |  |  |  |  |  |
| 1994  | Pre                    | 41  | 24                                       | 22                                    | 22                            | 0                                   |  |  |  |  |  |
|       | Post                   | 18 (12)                                   | 16 (10)                                  | 14 (8)                                | 14                            | 0                                   |  |  |  |  |  |
| 1995  | Pre                    | 37  | 26                                       | 22                                    | 21                            | 1                                   |  |  |  |  |  |
|       | Post                   | 20 (11)                                   | 18 (10)                                  | 17 (9)                                | 15                            | 2                                   |  |  |  |  |  |

<sup>&</sup>lt;sup>1</sup> PHS 398 (Rev. 5/01), page 68, section 8, Trainee Candidates, paragraph 2, "Create a table for each participating department/unit...."

# **Department of Physiology**

| Year | Type | No. Applications<br>Received <sup>1</sup> | No. of Positions<br>Offered <sup>1</sup> | No. Entering<br>Training <sup>1</sup> | No. Completed/<br>in Training | No. Leaving<br>Program <sup>2</sup> |
|------|------|---|--|---------------------------------------|-------------------------------|-------------------------------------|
| 1991 | Pre  | 12  | 8  | 6                                     | 6                             | 2                                   |
|      | Post | 8 (2)                                     | 6 (2)                                    | 5 (1)                                 | 5                             | 0                                   |
| 1992 | Pre  | 15  | 12                                       | 10                                    | 10                            | 0                                   |
|      | Post | 10 (3)                                    | 8 (2)                                    | 6                                     | 5                             | 14                                  |
| 1993 | Pre  | 22  | 15                                       | 14                                    | 12                            | 2                                   |
|      | Post | 12 (0)                                    | 8  | 8                                     | 7                             | 1                                   |
| 1994 | Pre  | 26  | 18                                       | 16                                    | 15                            | 1                                   |
|      | Post | 13 (2)                                    | 9 (2)                                    | 8                                     | 8                             | 0                                   |
| 1995 | Pre  | 24  | 17                                       | 15                                    | 12                            | 3                                   |
|      | Post | 16 (2)                                    | 12 (2)                                   | 10                                    | 9                             | 1                                   |
|      |      |   |  |                                       |                               |                                     |

<sup>&</sup>lt;sup>1</sup> Indicate in parentheses number of M.D. applicants; count M.D./Ph.D. as M.D.

<sup>&</sup>lt;sup>2</sup> Indicate if any fellows leaving the program have continued training elsewhere

<sup>&</sup>lt;sup>3</sup> 1 opted for an M.S. degree; 1 left to join training program in another Department

<sup>&</sup>lt;sup>4</sup>Left training program for private practice

# Table VI. Predoctoral Applicant Pool<sup>1</sup>

Anonymously indicate the credentials and application outcomes of the predoctoral applicant pool for the most recent year for each participating department and unit.

**Rationale:** These data can be used to evaluate the size and quality of the predoctoral applicant pool from which trainees may be selected.

#### Sample Table VI

| Year/<br>Department or<br>Program<br>Applicant <sup>1,2,3</sup> | Previous<br>Institution | GRE Scores<br>V/Q ADV      | GPA          | Offered<br>Admission<br>(x) | Entered<br>Program <sup>4</sup><br>(x) | US Citizen(US)<br>Perm Res(PR) |  |  |  |  |  |
|---|-------------------------|----------------------------|--------------|-----------------------------|--|--------------------------------|--|--|--|--|--|
| 2002/ Molecular Biology Program                                 |                         |                            |              |                             |  |                                |  |  |  |  |  |
| 1<br>2*+  | U. MI<br>Stanford       | 555/695 690<br>564/703 655 | 3.70<br>3.78 | x<br>x                      | X                                      | US                             |  |  |  |  |  |
| 2002/ Department of Pharmacology                                |                         |                            |              |                             |  |                                |  |  |  |  |  |
| 1<br>2  | U. Texas<br>U. Penn     | 559/732 677<br>589/776 702 | 3.46<br>3.80 | x<br>x                      | X                                      | PR                             |  |  |  |  |  |

<sup>&</sup>lt;sup>1</sup>Applicants may be identified by numbers, rather than by names, to safeguard privacy. Prioritize the applicants in each unit to list those accepted and matriculated first, then those accepted and not matriculated, and finally those not accepted.

<sup>&</sup>lt;sup>1</sup>PHS 398 (Rev. 5/01), page 68, section 8, Trainee Candidates, paragraph 3, "In a table, anonymously indicate....."

<sup>&</sup>lt;sup>2</sup> Provide date for all programs/departments that are relevant to this application.

<sup>&</sup>lt;sup>3</sup> Designate applicants who are eligible for training grant support (based on citizenship or permanent residency status) with an asterisk (\*) and underrepresented minority applicants with a dagger (+).

<sup>&</sup>lt;sup>4</sup> For those candidates who did not accept an offer, note where they actually matriculated, if known.

# Table VII. Postdoctoral Applicant Pool<sup>1</sup>

Present the qualifications of prospective postdoctoral trainees in the most recent applicant pool.

**Rationale:** These data can be used to evaluate the size and quality of the postdoctoral applicant pool from which trainees may be selected.

### Sample Table VII

| Fellow <sup>1</sup> | Previous<br>Institution | Degree<br>& Year | Preceptor  |                    | Offered<br>Admission<br>(x) | Entered<br>Program<br>(x) |
|---------------------|-------------------------|------------------|------------|--------------------|-----------------------------|---------------------------|
| Williams, F.        | Ohio State U.           | Ph.D. 2001       | Holmes, J. | Neuronal K+ Currer | nts x                       | Х                         |
| Sardo, D.*          | Yale U.                 | M.D. 2000        | Smith, A.  | Washington U.      | x                           |                           |
| Ortez, A.+*         | U. Maryland             | Ph.D.1999        | Stuart, G. | Cardiac Metabolism | ı x                         | х                         |
| Gartland, T.*       | U. Wisconsin            | M.D. 1998        | Lech, J.   | Harvard U.         | x                           | x                         |
| Chance, A.+*        | U. Notre<br>Dame        | Ph.D. 2002       | Allen, D.  | Lung Development   | X                           |                           |
| Avery, L.           | St. Louis U.            | Ph.D.1998        | Davies, J. | Vascular Biology   | x                           | x                         |

Indicate the training grant eligible fellows (based on citizenship or permanent residency status) with an asterisk(\*) and underrepresented minority fellows with a dagger (+).

<sup>&</sup>lt;sup>1</sup>PHS 398 (Rev. 5/01), page 68, section 8, Trainee Candidates, paragraph 4, "....name, degree(s) and year awarded....research topic....."

### **PROGRESS REPORT (Competing Continuation Applications Only)**

Table VIII. Assignment of Awarded Trainee Positions<sup>1</sup>

### Sample Table VIII

| Year | Total #<br>Positions<br>Awarded | # Predoctoral<br>Trainees<br>Appointed | # Postdoctoral<br>Trainees Appointed |    |     | PGY of Postdoc<br>Trainees |   |   |   |   |   | # Positions<br>Unfilled <sup>*</sup> |   |     |
|------|---------------------------------|--|--------------------------------------|----|-----|----------------------------|---|---|---|---|---|--------------------------------------|---|-----|
|      |                                 |  | MD/<br>PhD                           | MD | PhD | 0                          | 1 | 2 | 3 | 4 | 5 | 6                                    | 7 |     |
| 01   | 6                               | 2                                      | 1                                    | 2  | 1   | 1                          |   | 1 |   | 2 |   |                                      |   | 0   |
| 02   | 6                               | 2                                      | 1                                    | 2  | 1   |                            | 1 |   | 1 |   | 2 |                                      |   | 0   |
| 03   | 6                               | 2                                      |                                      | 2  | 2   |                            |   | 2 | 2 |   |   |                                      |   | 0   |
| 04   | 6                               | 2                                      |                                      | 2  | 2   |                            |   |   | 2 | 2 |   |                                      |   | 0   |
| 05   | 6                               | 2                                      |                                      | 1  | 2   |                            |   |   |   | 1 |   | 2                                    |   | 1*+ |

<sup>\*</sup> Explain any training positions that were not filled

<sup>&</sup>lt;sup>1</sup>PHS 398 (Rev. 5/01), page 69, section 8, Progress Report, paragraph 1, "Provide a table documenting for each year....the program's actual assignment of awarded positions."

<sup>\*+</sup> Private Practice

# **PROGRESS REPORT (Competing Continuation Applications Only)**

Table IX. Training Supported by this Current Grant for the Previous Ten Years<sup>1</sup>

List only trainees supported by this grant. Chronological order is preferred. **Use asterisks (\*) to indicate trainees from underrepresented minority groups.** 

Rationale: This table shows the record of past trainees supported by this training grant.

### Sample Table IX

| Name<br>    | Year Entering<br>Program, Prior<br>Institution,<br>Degree at Entry | Support<br>for Each<br>Year of<br>Training | Mentor     | Research<br>Topic                      | Position Upon<br>Leaving Training | Current Position,<br>Institute | Grants<br>Obtained <sup>1</sup> |
|-------------|--|--|------------|--|-----------------------------------|--------------------------------|---------------------------------|
| Predoctoral | <u>Program</u>   |  |            |  |                                   |                                |                                 |
| Safer, P.   | 90, UCSD<br>B.S.   | 92-96; this grant                          | Holmes, J. | PKC Cardiac<br>Protection              | Postdoc<br>Univ. Texas            | Asst. Prof.,<br>Baylor         | AHA<br>Award '94                |
| Browne, A.  | 99; U Tenn;<br>B.A.  | 00-present<br>this grant                   | Holmes, J. | Selective<br>Inhibition of<br>K-ATPase | Postdoc<br>Rice Univ.             | N/A                            | N/A                             |
| Argos, H.   | 00; Miami U.,<br>M.S.  | 01-present;<br>this grant                  | Smythe, A. | Cellular<br>Myocyte<br>Mutagenesis     | N/A                               |                                |                                 |
| Postdoctora | al Program   |  |            |  |                                   |                                |                                 |
| *Guerra, J. | 90; Medical Sch.,  | 90-92;                                     | Herd, S.   | Glucocorticoid                         | Asst. Prof.                       | Associate                      | NIH R01                         |

<sup>&</sup>lt;sup>1</sup> PHS 398 (Rev. 5/01), page 69, section 8, Progress Report, paragraph 2, "Provide a table listing all trainees who were or are supported by this training grant."

|             | UC San Diego<br>M.D.    | all this<br>grant               |                | Effects in Lung<br>Interstitium                    | Univ. of Iowa                         | Prof., Univ.<br>of Iowa    |           |
|-------------|-------------------------|---------------------------------|----------------|--|---------------------------------------|----------------------------|-----------|
| Taylor, Z.  | 95; Boston U.,<br>Ph.D. | 96,<br>this grant<br>97-98, F32 | Summers,<br>P. | Insulin<br>Receptor<br>Defects in<br>Myocardium    | Scientist,<br>Upjohn Co.              | Scientist,<br>Upjohn Co.   | N/A       |
| *Odams, S.  | 96; U. Oregon,<br>M.D.  | 97-99, this grant               | Terry, W.      | Immunologic<br>Response to<br>Xeno-<br>transplants | Clin Fellow,<br>Brigham &<br>Wom Hosp | Asst. Prof.,<br>Yale       | NIH K08   |
| Spotter, R. | 00, Harvard:<br>Ph.D.   | 01-03, this<br>grant            | Holmes, J.     | Ca Antagonists<br>And Precon-<br>ditioning         | Asst. Prof.,<br>Yale Univ.            | Asst. Prof.,<br>Yale Univ. | AHA Award |
| *Brown, G   | 01; Harvard:<br>M.D.    | 01-present;<br>this grant       | Velletri, T.   | Na+ Transport<br>In the Kidney                     | N/A                                   |                            |           |

<sup>&</sup>lt;sup>1</sup>Refers only to those trainees who have completed the training program. Although information on the funding sources of former trainees is often difficult to obtain, it is extremely useful in assessing the success of the program

<sup>\*</sup> Underrepresented Minority Trainee

# **PROGRESS REPORT (Competing Continuation Applications Only)**

Table X. Trainee Publications for the Previous Ten Years<sup>1</sup>

Although this table is not requested in the PHS 398, its inclusion will assist the reviewers in evaluating the application.

**Rationale:** This information supplies one index of the productivity of the program and preceptors.

### Sample Table X

| Trainee     | Publications (author, year, title, journal)  |
|-------------|--|
| Browne, A.  | Browne, A. and Holmes, J. (1998) "Role of PKC Translocation in Mediating Cardiac Protection", Circulation 97: 303-309  |
| Argos, H.   | Argos, H., Smythe, A., and Ralston, G. (1998) "Myocardial Mutants of Calmodulin," Nature Medicine 4: 704-709   |
|             | Argos, H., Rubins, A., Hager, J., and Smythe, A. (1999) "Calcineurin Interaction with Calmodulin Mutants: regulation by Calcium," Circulation 100: I-51 (Abstract) |
| Spotter, R. | Spotter, R., Goldman, J., and Holmes, J. (1998) "Calcium Transients during Ischemic Preconditioning," Circ. Res. 83: 166-173                                       |
| Brown, G.   | Brown, G. and Velletri, T. (1999) "Physiological Effects of Sodium Transport Inhibitors in the Kidney," AJP: Renal 276: F657-F662                                  |

<sup>&</sup>lt;sup>1</sup> PHS 398 (Rev. 5/01), page 69, section 8, Progress Report, paragraph 2, "...and list all publications that resulted from the work during training."